

TOBACCO INDUSTRY RESEARCH COMMITTEE
350 FIFTH AVENUE NEW YORK 1, N. Y.

6. Budget Plan

122

1. Salaries

Application For Research Grant

Overhead

Other

Date: December 29, 1955

1. Name of Investigator: Francis C. Lowell, M.D. (1)
2. Address of Office of Work: William Franklin, M.D. (2)

2. Title: (1) Member, Evans Memorial, Massachusetts Memorial Hospitals
3. Institution: Associate Professor of Medicine, Boston University School of Medicine

4. Address: 65 East Newton Street
Boston 18, Massachusetts

4. Project or Subject: To determine in the course of the next 1 1/2 or 2 years the incidence in an industrial population of chronic pulmonary disease (especially emphysema and asthma), and its relation to occupation, smoking and past history of certain other diseases.

* No additional requirements for this study are anticipated at this time.

5. Detailed Plan of Procedure (Use reverse side if additional space is needed):

10. Additional information exclusive relation to work to other projects and other
often unrecognized by the subject, may exist in the absence of physical and x-ray findings.
This is especially true for bronchial asthma and pulmonary emphysema. The associated
functional abnormality in these conditions as well as restrictive disease may be readily
detected with the expiogram, a kymographic tracing of a maximal forced expiration (1).
The procedure, done before and after the administration of a bronchodilator drug, re-
quires little time and a minimum amount of instruction for the subject. We have ar-
ranged to carry out this study in an industrial plant in this vicinity which employs ap-
proximately 2,500 persons, and have already obtained the required apparatus. Each sub-
ject is to fill out, with assistance if necessary, a detailed questionnaire* which
includes a section on occupation and smoking as well as a section on respiratory,
cardiac and gastrointestinal symptoms. All the above information and the test of pul-
monary function will be gathered in conjunction with an annual physical examination which
includes urinalysis, routine examination of the blood and x-ray of the chest. This
study is already under way. We are applying for funds to make possible proper execution
of the test of pulmonary function, accumulation of complete data and detailed analysis of
the material.

(1) Clinical value of a tracing of forced expiration (expiogram). I. Pulmonary function.
Franklin, W., Michelson, A.D., Lowell F.C. and Schiller, I.W. N. Eng. J. Med, 253:
799-808, (Nov. 10) 1955.

Signature

s/ Francis C. Lowell

* Prepared with the assistance of Mr. John Alman, Director of Statistical Research
Services, Boston University

1003541428

s/ Philip D. Bonnet, M.D.

Business Officer of the Institution
Administrator

6. Budget Plan:

	Salaries	\$6,000
	Expendable Supplies	1,000
Applicable	Permanent Equipment	900
	Overhead	2,000
	Other	\$9,900
	(10%)	
Date	Total	

7. Anticipated Duration of Work: 1 1/2 to 2 years

8. Facilities and Staff Available: Facilities include the Medical Dept. of an industrial plant employing approximately 2,500 persons. Apparatus for carrying out the expiograms has been obtained. Analysis of the data is to be done by the Statistical Research Services of Boston University. The Medical Dept. of the industrial plant is staffed by 2 or more physicians, 5 nurses and 2 technicians. The request for salaries mentioned under (6) does not include personnel already employed in the Medical Department. One of us (Wm. Franklin, M.D.) is in regular attendance twice weekly and is in a position to supervise the performance of the tests and the collection of data. In addition, secretarial, technical and laboratory facilities are available in the Evans Memorial for special procedures as they may arise.

9. Additional Requirements: None.

* No additional requirements for this study are anticipated at this time.

10. Additional Information (Including relation of work to other projects and other sources of supply): The plan described is an extension of a continuing study of obstructive pulmonary disease which has been in progress in this division of the Evans Memorial for a number of years. These researches have been supported by the Evans Memorial and in addition by grants from the U.S. Public Health Service and from Pharmaceutical Companies. The current study described herein is being supported in part by the Evans Memorial and space, some technical help and certain supplies have been provided by the industrial plant concerned. The apparatus has been donated by Warren E. Collins Co. of Boston.

Each subject is filled out, with assistance if necessary, a detailed questionnaire which includes a section on occupation and smoking as well as a section on respiratory, circulatory and constitutional symptoms. All the above information and the use of pulmonary function will be gathered in conjunction with an annual physical examination which includes routine examination of the blood and x-ray of the chest. This study is already under way. We are applying for funds to make possible a technician, recorder of data, statistical analysis of data, and equipment and supplies.

Technician.....3,000
Recorder of data.....3,000
Statistical analysis of data.....2,000
Equipment and supplies.....1,000

Warren E. Collins Co., 350 Fifth Ave., New York 17, N.Y. and Schiller, Inc., N. Eng. J. Med., 1955, 252:1000, (Nov. 10) 1955.

Signature

s/ Francis C. Lowell

Director of Project

* Prepared with the assistance of Dr. John A. Bonnet, Director of Statistical Research Services, Boston University

s/ Philip D. Bonnet, M.D.

Business Officer of the Institution
Administrator

